

## PATENT CLAIMS

1. A brake control system for a wheel of a vehicle in motion comprising:
  - (a) a registration unit for longitudinal acceleration;
  - (b) registration unit for brake pressure to wheel brake;
  - (c) a computation function which continuously compare changes in acceleration and transmits signals to a pressure regulator for brake pressure; and
  - (d) a pressure regulator designed to increase or reduce brake pressure to wheel brake.
2. A method of controlling the brake pressure controller for a wheel of a vehicle in motion which changes brake pressure in accordance to change in longitudinal acceleration over time characterized by:
  - (a) brake pressure to wheel brake is set off and increased evenly;
  - (b) longitudinal acceleration is compared from one time frame to the next ;
  - (c) when the acceleration negative value in one time frame to the next increases, brake pressure is increased;
  - (d) when acceleration negative value in one time frame to the next decreases brake pressure is reduced; then;
  - (e) functions "b", "c" and "d" are reiterated continuously until vehicle has come to a stop.
3. The method of Claim 2, characterized by that acceleration information used is computed as a vector equal the hypotenuse in a right-angled triangle where longitudinal and lateral acceleration are right -angle sides.
4. System and method of claims 1-2 characterized by that the vehicle is an aircraft.
5. System and method of claims 1-2 characterized by being an automatic brake.
6. System and method of claims 1-2 characterized by being a manual/ pedal brake.